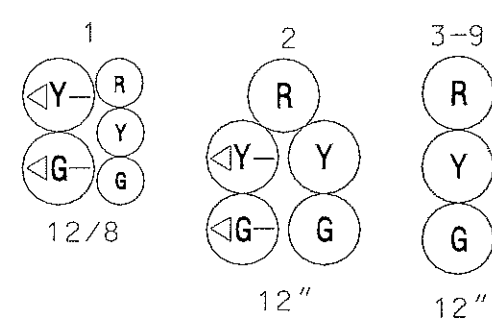


MD 5 IS CONSIDERED TO RUN IN A NORTH-SOUTH DIRECTION

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF A NB LEFT TURN QUE DETECTOR TO CALL A MAX 11 OR MAX 111 UPON DETECTOR ACTUATION. ALL EXISTING SIGNAL HEADS WILL ALSO BE UPGRADED TO BLACK FACED HEADS AS PART OF THIS PROJECT.

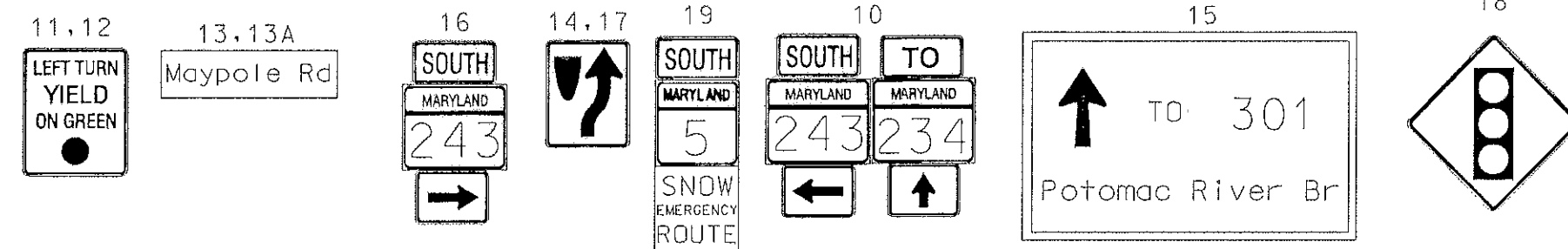
EXISTING SIGNALS



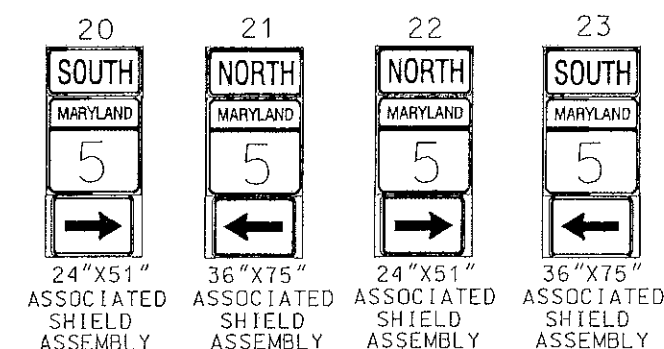
OPTICOM DETECTOR EYE



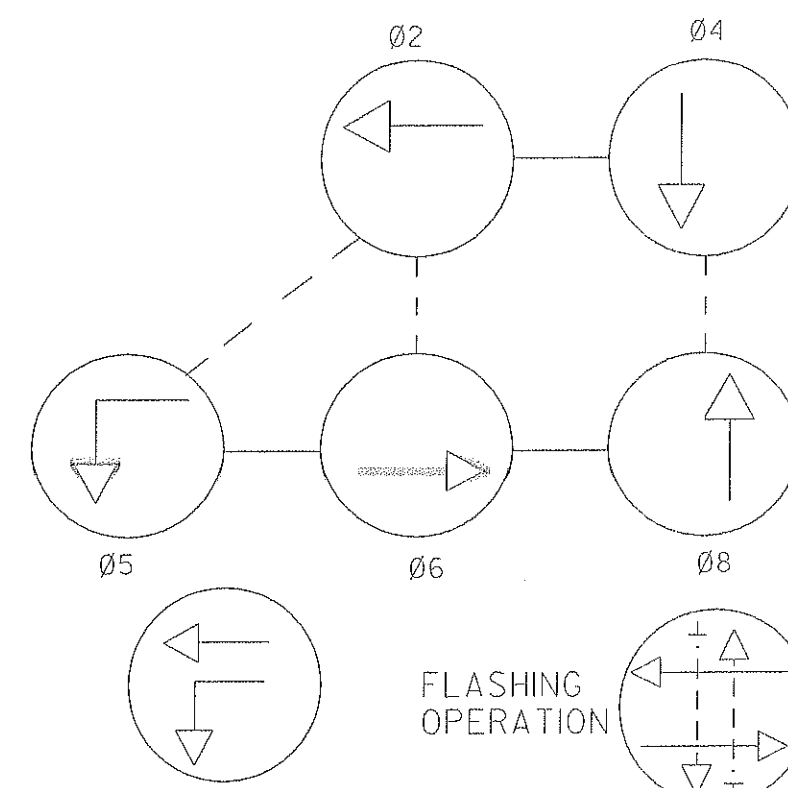
EXISTING SIGNS



PROPOSED SIGNS



NEMA PHASING



PRE-EMPTION 1

PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY

CONSTRUCTION DETAILS

- REMOVE EXISTING SIGNAL HEAD AND INSTALL NEW BLACK FACED HEAD
- REMOVE GROUND MOUNTED SIGN
- INSTALL POLE MOUNTED SIGN
- INSTALL 6X30 (3-6-3 WINDING) LOOP DETECTOR ENCASED IN 1/4" FLEXIBLE TUBING
- INSTALL 1" LIQUID TIGHT NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
- USE EXISTING HANDBOX
- USE EXISTING CONDUIT
- USE EXISTING SPAN WIRE
- RELOCATE EXISTING SIGN AS NOTED

SPECIAL NOTE

- 6X30 LOOP DETECTOR TO BE PLACED 300' BACK FROM STOP LINE TO BE PLACED IN EXPANDED LEFT TURN BAY CONSTRUCTED BY DISTRICT 5 MAINTENANCE FORCES.

UTILITY LEGEND

- G — G — GAS MAIN
- W — W — WATER MAIN
- S — S — SEWER MAIN
- E — E — ELECTRIC CABLES
- A — A — AERIAL CABLES
- T — T — TELEPHONE CABLES

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

QUANTITY	ITEM DESCRIPTION
54.5 SF	SHEET ALUMINUM SIGN (POLE MOUNTED) AS SHOWN ABOVE

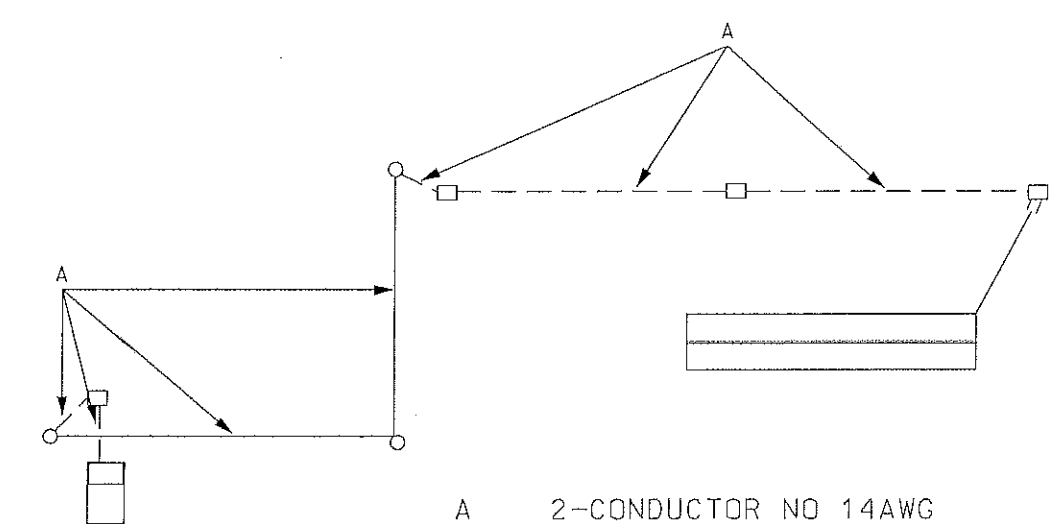
B. EQUIPMENT TO BE SUPPLIED AND/OR INSTALLED BY THE CONTRACTOR

ITEM #	QUANTITY	ITEM DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
8021	140 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
8023	5 LF	FURNISH AND INSTALL 1" LIQUID TIGHT NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8040	450 LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING
8041	725 LF	FURNISH AND INSTALL 2-CONDUCTOR NO 14AWG ELECTRICAL CABLE (ALUMINUM SHIELDED)
8053	54.5 SF	INSTALL OVERHEAD SIGN
8060	1 EA	REMOVE AND DISPOSE OF EXISTING EQUIPMENT-PER ASSIGNMENT
8084	28 EA	FURNISH AND INSTALL 12" VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8085	3 EA	FURNISH AND INSTALL 8" VEHICULAR TRAFFIC SIGNAL HEAD SECTION

C. EQUIPMENT TO BE RETURNED TO THE SHA

ALL EQUIPMENT THAT IS REMOVED TO BE COME THE PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



A 2-CONDUCTOR NO 14AWG ALUMINUM SHIELDED
LW LOOP WIRE ENCASED IN 1/4" FLEXIBLE TUBING

REVISIONS	APPROVALS
© INSTALL NB LOOP AND CONVERT ALL HEADS TO BLACK FACED TIMSH 1582 6/01 CJS MKR 042 042 042 B INSTALL OPTICOM NB 5 CEI MODIFY HANDHOLES DUE TO NEW GEOMETRICS REDLINE 1 3/00	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION MD 5 (Leonardtwn Rd) @ MD 243			
DRAWN BY: SPP (REDRAW) CHECKED BY: TMH SCALE: 1:20 DATE: 3/00	F.A.P. NO. S.H.A. NO. 5M799A1858 COUNTY: ST MARY'S LOG MILE: 18000530.22	TS NO. 2537-C T.I.M.S. NO. N/A	SHEET NO. 1 OF 1